

Release notes for ENDF/B Development n-026_Fe_054
evaluation

ENDF
B-VII.dev

April 26, 2017

- psyche Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 6.64906E+05 DISSAGREES WITH THE GIVEN Q 0.00000E+00 (0): Iffy Q

```

FILE 3
SECTION 107
      THE CALCULATED Q  6.64906E+05 DISSAGREES WITH THE GIVEN Q  0.00000E+00

```

- psyche Errors:

1. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 285 (0): Neg. prob.

```

FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                                SEQUENCE NUMBER  285

```

061.8499B6060.90Z0B0064.9658B3053E602754B0058.865B6352A11B0E2072M1928B0B20586B0B0024B5B6B1B00323B0B20B0124B52B6B0B0B3B0B40446262B0B40625E6

2. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 285 / ENERGY BALANCE SUMMARY: Q = -6.62900E+06 (0): Neg. prob.

```

FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                                SEQUENCE NUMBER  285
      ENERGY BALANCE SUMMARY: Q =  -6.62900E+06

```

3. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 454 / FROM -9.9916E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.

```

FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                                SEQUENCE NUMBER  454
      FROM -9.9916E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

```

4. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1147 / FROM -9.9988E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00 (0): Neg. prob.

```

FILE 6
SECTION 5
      DISTRIBUTION IS NEGATIVE                                SEQUENCE NUMBER  1147
      FROM -9.9988E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

```

5. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343 / FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.4438E-06 (0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.4438E-06

6. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [33 more lines]

7. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
ENERGY BALANCE SUMMARY: Q = -1.33780E+07 ENERGY BALANCE SUMMARY: Q = -1.33780E+07

8. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
/ ENERGY BALANCE SUMMARY: Q = -1.33780E+07 (0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
ENERGY BALANCE SUMMARY: Q = -1.33780E+07

9. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 375
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 375
ENERGY BALANCE SUMMARY: Q = -2.40610E+07 ENERGY BALANCE SUMMARY: Q = -2.40610E+07
ENERGY BALANCE SUMMARY: Q = -4.02440E+07 ENERGY BALANCE SUMMARY: Q = -4.02440E+07

10. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 375
/ ENERGY BALANCE SUMMARY: Q = -4.02440E+07 (0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 375
ENERGY BALANCE SUMMARY: Q = -4.02440E+07

11. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 687
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 687
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

12. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 573
/ FROM -9.9919E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 573
FROM -9.9919E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

13. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1152
/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1152
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07

14. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1152
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1152
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

15. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1189
/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
(0): Neg. prob.

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1189
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07

16. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1189
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.

FILE 6
SECTION 5

17. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1239
 / FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 (0): Neg. prob.

18. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1239
 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 (0): Neg. prob.

19. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1248
 / FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.6624E-07
 (0): Neg. prob.

20. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1268
 / FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-07
 (0): Neg. prob.

21. A probability distribution is negative. This is bad.
 FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1268
 / FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 (0): Neg. prob.

```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE
SEQUENCE NUMBER 1268
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

```

- FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [1 more lines]
22. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1268
(0): Neg. prob.
- ```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1268
ENERGY BALANCE SUMMARY: Q = 0.00000E+00 ENERGY BALANCE SUMMARY: Q = 0.00000E+00
ENERGY BALANCE SUMMARY: Q = 9.29843E+06 ENERGY BALANCE SUMMARY: Q = 9.29843E+06

```
23. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1268*  
*/ ENERGY BALANCE SUMMARY: Q = 9.29843E+06 (0): Neg. prob.*
- ```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1268
ENERGY BALANCE SUMMARY: Q = 9.29843E+06

```
24. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 348 /
FROM -9.9970E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08 (0):
Neg. prob.
- ```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 348
FROM -9.9970E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

```
25. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333*  
*/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.4305E-06*  
*(0): Neg. prob.*
- ```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE                      SEQUENCE NUMBER 1333
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.4305E-06

```
26. A probability distribution is negative. This is bad.
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
(0): Neg. prob.
- ```

FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [52 more lines]

```
27. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343*

/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.1458E-06  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.1458E-06

28. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1147*  
*/ FROM -9.9982E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1147  
FROM -9.9982E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

29. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312*  
*/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1325E-05*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1325E-05

30. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [24 more lines]

31. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.8743E-06*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.8743E-06

32. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364*  
*/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 9.5367E-07*  
(0): Neg. prob.

- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364  
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 9.5367E-07
33. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [20 more lines]
34. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116  
/ FROM -9.9903E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1116  
FROM -9.9903E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
35. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1291  
/ FROM -9.9951E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1291  
FROM -9.9951E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
36. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1291  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1291  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [12 more lines]
37. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.2517E-06  
(0): Neg. prob.*



FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.2517E-06

38. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333  
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.2452E-06  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.2452E-06

39. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384  
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.6822E-06  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.6822E-06

40. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [10 more lines]

41. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395  
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.1526E-07  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.1526E-07

42. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

- FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [32 more lines]
43. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1250*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.7353E-06*  
(0): Neg. prob.
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1250  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.7353E-06
44. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1250*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
(0): Neg. prob.
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1250  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [2 more lines]
45. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1260*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.3113E-06*  
(0): Neg. prob.
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1260  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.3113E-06
46. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1260*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
(0): Neg. prob.
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1260  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [4 more lines]
47. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1291*  
*/ FROM -9.8438E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07*  
(0): Neg. prob.
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1291  
FROM -9.8438E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07

48. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1302*  
*/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1302
FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
```

49. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1302*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1302
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [4 more lines]
```

50. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.4901E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.4901E-06
```

51. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [24 more lines]
```

52. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.3842E-07
```

53. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374
 FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [33 more lines]
```

54. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374
 ENERGY BALANCE SUMMARY: Q = -7.47400E+06 ENERGY BALANCE SUMMARY: Q = -7.47400E+06
```

55. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ ENERGY BALANCE SUMMARY: Q = -7.47400E+06 (0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374
 ENERGY BALANCE SUMMARY: Q = -7.47400E+06
```

56. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 337*  
*/ FROM -9.9951E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08 (0):*  
*Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 337
 FROM -9.9951E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08
```

57. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 9.4771E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395
 FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 9.4771E-06
```

58. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281*  
*/ FROM -9.9988E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08*  
*(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281  
FROM -9.9988E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

59. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343*  
*/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.5034E-06*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.5034E-06

60. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1353*  
*/ FROM -9.9902E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1353  
FROM -9.9902E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-08

61. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.4186E-05*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.4186E-05

62. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.3842E-06*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.3842E-06

63. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312*  
*/ FROM -9.8414E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
FROM -9.8414E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

64. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.1989E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333
 FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.1989E-06
```

65. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.2254E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343
 FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.2254E-06
```

66. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374
 FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07
```

67. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.2352E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415
 FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.2352E-06
```

68. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415
 FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [22 more lines]
```

69. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1147*  
*/ FROM -9.9998E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07*  
*(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1147  
FROM -9.9998E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07

70. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1229*  
*/ FROM -9.9925E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1229  
FROM -9.9925E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08

71. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281*  
*/ FROM -9.6680E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281  
FROM -9.6680E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-07

72. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333*  
*/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-07*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 5.9605E-07

73. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.5565E-06*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1343  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.5565E-06

74. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.6822E-07*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.6822E-07

75. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384*  
*/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.5795E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.5795E-06
```

76. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
```

77. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1405*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.0994E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1405
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 3.0994E-06
```

78. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1405*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1405
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [12 more lines]
```

79. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -4.4107E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -4.4107E-06
```

80. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1198*  
*/ FROM -9.9977E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*



FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1198  
FROM -9.9977E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00

81. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1271*  
*/ FROM -9.9451E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1271  
FROM -9.9451E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.7881E-07

82. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.7486E-07*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 7.7486E-07

83. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322*  
*/ FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322  
FROM -9.3750E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06

84. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.4438E-06*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1333  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.4438E-06

85. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -4.1723E-07*  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1374  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -4.1723E-07

86. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1384
 FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -2.9802E-08
```

87. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395*  
*/ FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1395
 FROM -9.9219E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -5.9605E-08
```

88. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1405*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.1723E-06*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1405
 FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 4.1723E-06
```

89. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426*  
*/ FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-07*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426
 FROM -9.6875E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1921E-07
```

90. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426*  
*/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
 DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426
 FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
 FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
... [7 more lines]
```

91. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1436*  
*/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1027E-06*  
*(0): Neg. prob.*

- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1436  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -1.1027E-06
92. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1436  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1436  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [2 more lines]
93. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1446  
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.0466E-07  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1446  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -8.0466E-07
94. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1446  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1446  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [6 more lines]
95. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1198  
/ FROM -9.6526E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1198  
FROM -9.6526E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00
96. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1240  
/ FROM -8.2010E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 8.3447E-07  
(0): Neg. prob.*

- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1240  
FROM -8.2010E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 8.3447E-07
97. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1271  
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.0201E-06  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1271  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.0201E-06
98. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1271  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1271  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [2 more lines]
99. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281  
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.4305E-06  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.4305E-06
100. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.*
- FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1281  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [8 more lines]
101. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.8545E-06  
(0): Neg. prob.*

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1312  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 6.8545E-06

102. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322  
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1322  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.1921E-06

103. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1353  
/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.0133E-06  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1353  
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 1.0133E-06

104. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1353  
/ FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1353  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
FROM -1.0000E+00 TO -1.0000E+00 NEGATIVE PROBABILITY IS -0.0000E+00  
... [6 more lines]

105. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364  
/ FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.0862E-06  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1364  
FROM -5.0000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.0862E-06

106. A probability distribution is negative. This is bad.  
FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415  
/ FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 8.9407E-07  
(0): Neg. prob.

FILE 6  
SECTION 5  
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1415  
FROM -8.7500E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 8.9407E-07

107. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426*  
*/ FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.3842E-07*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426
FROM -7.5000E-01 TO -1.0000E+00 NEGATIVE PROBABILITY IS 2.3842E-07
```

108. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426*  
*(0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426
ENERGY BALANCE SUMMARY: Q = 8.50000E+04 ENERGY BALANCE SUMMARY: Q = 8.50000E+04
```

109. A probability distribution is negative. This is bad.  
*FILE 6 / SECTION 5 / DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426*  
*/ ENERGY BALANCE SUMMARY: Q = 8.50000E+04 (0): Neg. prob.*

```
FILE 6
SECTION 5
DISTRIBUTION IS NEGATIVE SEQUENCE NUMBER 1426
ENERGY BALANCE SUMMARY: Q = 8.50000E+04
```

- linear Errors:

1. Negative cross section found  
*0: Neg. Sig(E)*

```
Linearize ENDF/B Cross Sections (LINEAR 2015-1)

Retrieval Criteria----- MAT
Monitor Mode----- Off
Minimum Cross Section----- 1.0000E-10 (Default Option)
... [121 more lines]
```

- groupie Errors:

1. Very small elastic cross section found  
*0: Small elastic*

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- fudge-4.0 Warnings:

1. FIXME: Another genuine fudge bug!  
*(Error # 2): Fudge check bug*

FAILURE: ENDF EVALUATION CHECKING HALTED BECAUSE list index out of rangelist index out of range

• fudge-4.0 Errors:

1. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 0): Level mismatch (d)*  
  
WARNING: MT606 MF12 level energy 1009620.0 differs from MF3 value 1009619.8. Setting to MF3 value.
2. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 1): Level mismatch (d)*  
  
WARNING: MT801 MF12 level energy 749099.9 differs from MF3 value 749099.89. Setting to MF3 value.
3. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 2): Level mismatch (d)*  
  
WARNING: MT803 MF12 level energy 1164590.0 differs from MF3 value 1164589.9. Setting to MF3 value.
4. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 3): Level mismatch (d)*  
  
WARNING: MT804 MF12 level energy 1352650.0 differs from MF3 value 1352649.9. Setting to MF3 value.
5. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 4): Level mismatch (d)*  
  
WARNING: MT805 MF12 level energy 1480070.0 differs from MF3 value 1480069.9. Setting to MF3 value.
6. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 5): Level mismatch (d)*  
  
WARNING: MT806 MF12 level energy 1557260.0 differs from MF3 value 1557259.9. Setting to MF3 value.
7. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 6): Level mismatch (d)*  
  
WARNING: MT807 MF12 level energy 1899200.0 differs from MF3 value 1899199.9. Setting to MF3 value.
8. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 7): Level mismatch (d)*  
  
WARNING: MT808 MF12 level energy 2001910.0 differs from MF3 value 2001909.9. Setting to MF3 value.
9. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 8): Level mismatch (d)*  
  
WARNING: MT809 MF12 level energy 2255500.0 differs from MF3 value 2255499.9. Setting to MF3 value.
10. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 9): Level mismatch (d)*  
  
WARNING: MT810 MF12 level energy 2312580.0 differs from MF3 value 2312579.9. Setting to MF3 value.
11. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 10): Level mismatch (d)*

- WARNING: MT811 MF12 level energy 2379460.0 differs from MF3 value 2379459.9. Setting to MF3 value.
12. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 11): Level mismatch (d)*
- WARNING: MT812 MF12 level energy 2385400.0 differs from MF3 value 2385399.9. Setting to MF3 value.
13. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 12): Level mismatch (d)*
- WARNING: MT813 MF12 level energy 2500000.0 differs from MF3 value 2499999.9. Setting to MF3 value.
14. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 13): Level mismatch (d)*
- WARNING: MT814 MF12 level energy 2699000.0 differs from MF3 value 2698999.9. Setting to MF3 value.
15. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 14): Level mismatch (d)*
- WARNING: MT815 MF12 level energy 2704390.0 differs from MF3 value 2704389.9. Setting to MF3 value.
16. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 15): Level mismatch (d)*
- WARNING: MT816 MF12 level energy 2762600.0 differs from MF3 value 2762599.9. Setting to MF3 value.
17. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 16): Level mismatch (d)*
- WARNING: MT817 MF12 level energy 2767300.0 differs from MF3 value 2767299.9. Setting to MF3 value.
18. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 17): Level mismatch (d)*
- WARNING: MT818 MF12 level energy 2828500.0 differs from MF3 value 2828499.9. Setting to MF3 value.
19. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 18): Level mismatch (d)*
- WARNING: MT819 MF12 level energy 2890200.0 differs from MF3 value 2890199.9. Setting to MF3 value.
20. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 19): Level mismatch (d)*
- WARNING: MT820 MF12 level energy 2908100.0 differs from MF3 value 2908099.9. Setting to MF3 value.
21. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 20): Level mismatch (d)*
- WARNING: MT821 MF12 level energy 2911000.0 differs from MF3 value 2910999.9. Setting to MF3 value.
22. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe-054.endf (Error # 21): Level mismatch (d)*
- WARNING: MT822 MF12 level energy 2948200.0 differs from MF3 value 2948199.9. Setting to MF3 value.



23. Level energy in gamma data doesn't match level energy in cross section data  
*Reading ENDF file: ../n-026\_Fe\_054.endf (Error # 22): Level mismatch (d)*

WARNING: MT823 MF12 level energy 2970000.0 differs from MF3 value 2969999.9. Setting to MF3 value.

24. Exception IndexError was thrown  
*FAILURE: ENDF EVALUATION CHECKING HALTED BECAUSE list index out of rangelist index out of range (Error # 1): IndexError*

IndexError: list index out of range

• njoy2012 Warnings:

1. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (0): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=605  
adjusted using jump in xsec

2. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (1): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=609  
adjusted using jump in xsec

3. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (2): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=611  
adjusted using jump in xsec

4. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (3): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=615  
adjusted using jump in xsec

5. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (4): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=616  
adjusted using jump in xsec

6. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (5): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=617  
adjusted using jump in xsec

7. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (6): Sig(Eth)>0*

---message from lunion---xsec nonzero at threshold for mt=618  
adjusted using jump in xsec

8. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (7): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt=623
 adjusted using jump in xsec
```

9. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (8): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt=624
 adjusted using jump in xsec
```

10. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (9): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt=626
 adjusted using jump in xsec
```

11. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (10): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt=629
 adjusted using jump in xsec
```

12. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (11): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt=631
 adjusted using jump in xsec
```

13. Evaluation has no unresolved resonance parameters given  
*unresr...calculation of unresolved resonance cross sections (0): No URR*

```
---message from unresr---mat 2625 has no unresolved parameters
 copy as is to nout
```

14. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (0): HEATR/hinit (4)*

```
---message from hinit---mf6, mt102 does not give recoil za= 26055
 photon momentum recoil used.
```

15. Evaluation has no unresolved resonance parameters given  
*purrr...probabalistic unresolved calculation (0): No URR*

```
---message from purrr---mat 2625 has no unresolved parameters
 copy as is to nout
```

- njoy2012 Errors:

1. An angular distribution is negative  
*acer...monte carlo neutron and photon data (0): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
 87 for mt= 51 e= 1.500E+08
```

2. An angular distribution is negative  
*acer...monte carlo neutron and photon data (1): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 52 e= 1.500E+08

```
3. An angular distribution is negative  
*acer...monte carlo neutron and photon data (2): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 53 e= 1.500E+08

```
4. An angular distribution is negative  
*acer...monte carlo neutron and photon data (3): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 4 for mt= 54 e= 9.000E+07

```
5. An angular distribution is negative  
*acer...monte carlo neutron and photon data (4): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 54 e= 1.000E+08

```
6. An angular distribution is negative  
*acer...monte carlo neutron and photon data (5): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 4 for mt= 55 e= 9.000E+07

```
7. An angular distribution is negative  
*acer...monte carlo neutron and photon data (6): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 55 e= 1.000E+08

```
8. An angular distribution is negative  
*acer...monte carlo neutron and photon data (7): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 16 e= 5.835E+01

```
9. An angular distribution is negative  
*acer...monte carlo neutron and photon data (8): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 2 for mt= 16 e= 6.704E+01

```
10. An angular distribution is negative  
*acer...monte carlo neutron and photon data (9): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 3 for mt= 16 e= 8.402E+01

```
11. An angular distribution is negative  
*acer...monte carlo neutron and photon data (10): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
2 for mt= 16 e= 9.859E+01
12. An angular distribution is negative  
*acer...monte carlo neutron and photon data (11): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 16 e= 1.143E+02
13. An angular distribution is negative  
*acer...monte carlo neutron and photon data (12): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 16 e= 1.049E+02
14. An angular distribution is negative  
*acer...monte carlo neutron and photon data (13): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 16 e= 1.120E+02
15. An angular distribution is negative  
*acer...monte carlo neutron and photon data (14): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 16 e= 1.130E+02
16. An angular distribution is negative  
*acer...monte carlo neutron and photon data (15): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
71 for mt= 16 e= 1.312E+02
17. An angular distribution is negative  
*acer...monte carlo neutron and photon data (16): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 17 e= 5.835E+01
18. An angular distribution is negative  
*acer...monte carlo neutron and photon data (17): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 17 e= 8.619E+01
19. An angular distribution is negative  
*acer...monte carlo neutron and photon data (18): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 6.703E+01
20. An angular distribution is negative  
*acer...monte carlo neutron and photon data (19): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 5.835E+01

21. An angular distribution is negative  
*acer...monte carlo neutron and photon data (20): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 91 e= 6.704E+01

```
22. An angular distribution is negative  
*acer...monte carlo neutron and photon data (21): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 91 e= 8.294E+01

```
23. An angular distribution is negative  
*acer...monte carlo neutron and photon data (22): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 3 for mt= 91 e= 8.402E+01

```
24. An angular distribution is negative  
*acer...monte carlo neutron and photon data (23): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 91 e= 9.763E+01

```
25. An angular distribution is negative  
*acer...monte carlo neutron and photon data (24): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 1 for mt= 91 e= 1.038E+02

```
26. An angular distribution is negative  
*acer...monte carlo neutron and photon data (25): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 3 for mt= 91 e= 1.205E+02

```
27. An angular distribution is negative  
*acer...monte carlo neutron and photon data (26): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 2 for mt= 91 e= 1.114E+02

```
28. An angular distribution is negative  
*acer...monte carlo neutron and photon data (27): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 2 for mt= 91 e= 1.143E+02

```
29. An angular distribution is negative  
*acer...monte carlo neutron and photon data (28): Neg.  $P(Ej\mu)$  (b)*  

```

---message from ptleg2---negative probs found
 7 for mt= 91 e= 1.161E+02

```
30. An angular distribution is negative  
*acer...monte carlo neutron and photon data (29): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
5 for mt= 91 e= 1.209E+02
31. An angular distribution is negative  
*acer...monte carlo neutron and photon data (30): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 1.170E+02
32. An angular distribution is negative  
*acer...monte carlo neutron and photon data (31): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
5 for mt= 91 e= 1.221E+02
33. An angular distribution is negative  
*acer...monte carlo neutron and photon data (32): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.231E+02
34. An angular distribution is negative  
*acer...monte carlo neutron and photon data (33): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
4 for mt= 91 e= 1.271E+02
35. An angular distribution is negative  
*acer...monte carlo neutron and photon data (34): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 91 e= 1.281E+02
36. An angular distribution is negative  
*acer...monte carlo neutron and photon data (35): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt= 91 e= 1.301E+02
37. An angular distribution is negative  
*acer...monte carlo neutron and photon data (36): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt= 91 e= 1.322E+02
38. An angular distribution is negative  
*acer...monte carlo neutron and photon data (37): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 1.332E+02
39. An angular distribution is negative  
*acer...monte carlo neutron and photon data (38): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
2 for mt= 91 e= 1.372E+02

40. An angular distribution is negative  
*acer...monte carlo neutron and photon data (39): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=111 e= 9.302E+01
41. An angular distribution is negative  
*acer...monte carlo neutron and photon data (40): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
25 for mt=111 e= 1.059E+02
42. An angular distribution is negative  
*acer...monte carlo neutron and photon data (41): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
53 for mt=111 e= 1.067E+02
43. An angular distribution is negative  
*acer...monte carlo neutron and photon data (42): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=111 e= 9.763E+01
44. An angular distribution is negative  
*acer...monte carlo neutron and photon data (43): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
71 for mt=111 e= 1.117E+02
45. An angular distribution is negative  
*acer...monte carlo neutron and photon data (44): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
65 for mt=111 e= 1.126E+02
46. An angular distribution is negative  
*acer...monte carlo neutron and photon data (45): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
43 for mt=111 e= 1.135E+02
47. An angular distribution is negative  
*acer...monte carlo neutron and photon data (46): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
54 for mt=111 e= 1.143E+02
48. An angular distribution is negative  
*acer...monte carlo neutron and photon data (47): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
48 for mt=111 e= 1.161E+02
49. An angular distribution is negative  
*acer...monte carlo neutron and photon data (48): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
15 for mt=111 e= 1.170E+02
50. An angular distribution is negative  
*acer...monte carlo neutron and photon data (49): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=111 e= 1.020E+02
51. An angular distribution is negative  
*acer...monte carlo neutron and photon data (50): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=111 e= 1.161E+02
52. An angular distribution is negative  
*acer...monte carlo neutron and photon data (51): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
13 for mt=111 e= 1.190E+02
53. An angular distribution is negative  
*acer...monte carlo neutron and photon data (52): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
41 for mt=111 e= 1.199E+02
54. An angular distribution is negative  
*acer...monte carlo neutron and photon data (53): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
34 for mt=111 e= 1.209E+02
55. An angular distribution is negative  
*acer...monte carlo neutron and photon data (54): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
68 for mt=111 e= 1.218E+02
56. An angular distribution is negative  
*acer...monte carlo neutron and photon data (55): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
33 for mt=111 e= 1.228E+02
57. An angular distribution is negative  
*acer...monte carlo neutron and photon data (56): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
24 for mt=111 e= 1.237E+02
58. An angular distribution is negative  
*acer...monte carlo neutron and photon data (57): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
31 for mt=111 e= 1.246E+02



59. An angular distribution is negative  
*acer...monte carlo neutron and photon data (58): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
33 for mt=111 e= 1.256E+02
60. An angular distribution is negative  
*acer...monte carlo neutron and photon data (59): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
43 for mt=111 e= 1.265E+02
61. An angular distribution is negative  
*acer...monte carlo neutron and photon data (60): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
31 for mt=111 e= 1.271E+02
62. An angular distribution is negative  
*acer...monte carlo neutron and photon data (61): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
54 for mt=111 e= 1.231E+02
63. An angular distribution is negative  
*acer...monte carlo neutron and photon data (62): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
34 for mt=111 e= 1.241E+02
64. An angular distribution is negative  
*acer...monte carlo neutron and photon data (63): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
28 for mt=111 e= 1.251E+02
65. An angular distribution is negative  
*acer...monte carlo neutron and photon data (64): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
49 for mt=111 e= 1.261E+02
66. An angular distribution is negative  
*acer...monte carlo neutron and photon data (65): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
38 for mt=111 e= 1.271E+02
67. An angular distribution is negative  
*acer...monte carlo neutron and photon data (66): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
31 for mt=111 e= 1.281E+02
68. An angular distribution is negative  
*acer...monte carlo neutron and photon data (67): Neg.  $P(Ej\mu)$  (b)*

- message from ptleg2---negative probs found  
23 for mt=111 e= 1.291E+02
69. An angular distribution is negative  
*acer...monte carlo neutron and photon data (68): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
51 for mt=111 e= 1.302E+02
70. An angular distribution is negative  
*acer...monte carlo neutron and photon data (69): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
8 for mt=111 e= 1.312E+02
71. An angular distribution is negative  
*acer...monte carlo neutron and photon data (70): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
33 for mt=111 e= 1.322E+02
72. An angular distribution is negative  
*acer...monte carlo neutron and photon data (71): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
30 for mt=111 e= 1.342E+02
73. An angular distribution is negative  
*acer...monte carlo neutron and photon data (72): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
12 for mt=111 e= 1.352E+02
74. An angular distribution is negative  
*acer...monte carlo neutron and photon data (73): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
3 for mt=649 e= 7.387E+01
75. An angular distribution is negative  
*acer...monte carlo neutron and photon data (74): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
1 for mt=649 e= 7.981E+01
76. An angular distribution is negative  
*acer...monte carlo neutron and photon data (75): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
34 for mt=649 e= 9.254E+01
77. An angular distribution is negative  
*acer...monte carlo neutron and photon data (76): Neg.  $P(Ej\mu)$  (b)*
- message from ptleg2---negative probs found  
58 for mt=649 e= 9.391E+01

78. An angular distribution is negative  
*acer...monte carlo neutron and photon data (77): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt=649 e= 9.377E+01

```
79. An angular distribution is negative
acer...monte carlo neutron and photon data (78): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 40 for mt=649 e= 9.827E+01

```
80. An angular distribution is negative  
*acer...monte carlo neutron and photon data (79): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      1 for mt=649 e= 9.902E+01

```
81. An angular distribution is negative
acer...monte carlo neutron and photon data (80): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 40 for mt=649 e= 9.977E+01

```
82. An angular distribution is negative  
*acer...monte carlo neutron and photon data (81): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      30 for mt=649 e= 1.005E+02

```
83. An angular distribution is negative
acer...monte carlo neutron and photon data (82): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 39 for mt=649 e= 1.013E+02

```
84. An angular distribution is negative  
*acer...monte carlo neutron and photon data (83): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      29 for mt=649 e= 1.020E+02

```
85. An angular distribution is negative
acer...monte carlo neutron and photon data (84): Neg. $P(Ej\mu)$ (b)
- ```

---message from ptleg2---negative probs found
 19 for mt=649 e= 1.028E+02

```
86. An angular distribution is negative  
*acer...monte carlo neutron and photon data (85): Neg.  $P(Ej\mu)$  (b)*
- ```

---message from ptleg2---negative probs found
      32 for mt=649 e= 1.035E+02

```
87. An angular distribution is negative
acer...monte carlo neutron and photon data (86): Neg. $P(Ej\mu)$ (b)

- message from ptleg2---negative probs found
3 for mt=649 e= 9.615E+01
88. An angular distribution is negative
acer...monte carlo neutron and photon data (87): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
2 for mt=649 e= 1.010E+02
89. An angular distribution is negative
acer...monte carlo neutron and photon data (88): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 1.043E+02
90. An angular distribution is negative
acer...monte carlo neutron and photon data (89): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 1.051E+02
91. An angular distribution is negative
acer...monte carlo neutron and photon data (90): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
58 for mt=649 e= 1.059E+02
92. An angular distribution is negative
acer...monte carlo neutron and photon data (91): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
42 for mt=649 e= 1.067E+02
93. An angular distribution is negative
acer...monte carlo neutron and photon data (92): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
35 for mt=649 e= 1.076E+02
94. An angular distribution is negative
acer...monte carlo neutron and photon data (93): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
28 for mt=649 e= 1.084E+02
95. An angular distribution is negative
acer...monte carlo neutron and photon data (94): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
13 for mt=649 e= 1.092E+02
96. An angular distribution is negative
acer...monte carlo neutron and photon data (95): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
36 for mt=649 e= 1.100E+02

97. An angular distribution is negative
acer...monte carlo neutron and photon data (96): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
41 for mt=649 e= 1.108E+02
98. An angular distribution is negative
acer...monte carlo neutron and photon data (97): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
36 for mt=649 e= 1.116E+02
99. An angular distribution is negative
acer...monte carlo neutron and photon data (98): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
30 for mt=649 e= 1.124E+02
100. An angular distribution is negative
acer...monte carlo neutron and photon data (99): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
37 for mt=649 e= 1.133E+02
101. An angular distribution is negative
acer...monte carlo neutron and photon data (100): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 9.763E+01
102. An angular distribution is negative
acer...monte carlo neutron and photon data (101): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 1.047E+02
103. An angular distribution is negative
acer...monte carlo neutron and photon data (102): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
3 for mt=649 e= 1.055E+02
104. An angular distribution is negative
acer...monte carlo neutron and photon data (103): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
4 for mt=649 e= 1.091E+02
105. An angular distribution is negative
acer...monte carlo neutron and photon data (104): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
31 for mt=649 e= 1.117E+02
106. An angular distribution is negative
acer...monte carlo neutron and photon data (105): Neg. $P(Ej\mu)$ (b)

- message from ptleg2---negative probs found
43 for mt=649 e= 1.135E+02
107. An angular distribution is negative
acer...monte carlo neutron and photon data (106): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
44 for mt=649 e= 1.143E+02
108. An angular distribution is negative
acer...monte carlo neutron and photon data (107): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
46 for mt=649 e= 1.152E+02
109. An angular distribution is negative
acer...monte carlo neutron and photon data (108): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
55 for mt=649 e= 1.161E+02
110. An angular distribution is negative
acer...monte carlo neutron and photon data (109): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
14 for mt=649 e= 1.170E+02
111. An angular distribution is negative
acer...monte carlo neutron and photon data (110): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
20 for mt=649 e= 1.179E+02
112. An angular distribution is negative
acer...monte carlo neutron and photon data (111): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
17 for mt=649 e= 1.187E+02
113. An angular distribution is negative
acer...monte carlo neutron and photon data (112): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
33 for mt=649 e= 1.196E+02
114. An angular distribution is negative
acer...monte carlo neutron and photon data (113): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
18 for mt=649 e= 1.205E+02
115. An angular distribution is negative
acer...monte carlo neutron and photon data (114): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
24 for mt=649 e= 1.214E+02

116. An angular distribution is negative
acer...monte carlo neutron and photon data (115): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
23 for mt=649 e= 1.223E+02
117. An angular distribution is negative
acer...monte carlo neutron and photon data (116): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 1.067E+02
118. An angular distribution is negative
acer...monte carlo neutron and photon data (117): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 1.095E+02
119. An angular distribution is negative
acer...monte carlo neutron and photon data (118): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
3 for mt=649 e= 1.152E+02
120. An angular distribution is negative
acer...monte carlo neutron and photon data (119): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
1 for mt=649 e= 1.161E+02
121. An angular distribution is negative
acer...monte carlo neutron and photon data (120): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
67 for mt=649 e= 1.180E+02
122. An angular distribution is negative
acer...monte carlo neutron and photon data (121): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
58 for mt=649 e= 1.190E+02
123. An angular distribution is negative
acer...monte carlo neutron and photon data (122): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
21 for mt=649 e= 1.199E+02
124. An angular distribution is negative
acer...monte carlo neutron and photon data (123): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
71 for mt=649 e= 1.209E+02
125. An angular distribution is negative
acer...monte carlo neutron and photon data (124): Neg. $P(Ej\mu)$ (b)

- message from ptleg2---negative probs found
51 for mt=649 e= 1.218E+02
126. An angular distribution is negative
acer...monte carlo neutron and photon data (125): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
55 for mt=649 e= 1.228E+02
127. An angular distribution is negative
acer...monte carlo neutron and photon data (126): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
40 for mt=649 e= 1.237E+02
128. An angular distribution is negative
acer...monte carlo neutron and photon data (127): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
28 for mt=649 e= 1.246E+02
129. An angular distribution is negative
acer...monte carlo neutron and photon data (128): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
88 for mt=649 e= 1.256E+02
130. An angular distribution is negative
acer...monte carlo neutron and photon data (129): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
6 for mt=649 e= 1.265E+02
131. An angular distribution is negative
acer...monte carlo neutron and photon data (130): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
31 for mt=649 e= 1.275E+02
132. An angular distribution is negative
acer...monte carlo neutron and photon data (131): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
79 for mt=649 e= 1.284E+02
133. An angular distribution is negative
acer...monte carlo neutron and photon data (132): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
20 for mt=649 e= 1.294E+02
134. An angular distribution is negative
acer...monte carlo neutron and photon data (133): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
33 for mt=649 e= 1.303E+02

135. An angular distribution is negative
acer...monte carlo neutron and photon data (134): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
19 for mt=649 e= 1.312E+02
136. An angular distribution is negative
acer...monte carlo neutron and photon data (135): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
44 for mt=649 e= 1.322E+02
137. An angular distribution is negative
acer...monte carlo neutron and photon data (136): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
3 for mt=649 e= 1.180E+02
138. An angular distribution is negative
acer...monte carlo neutron and photon data (137): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
5 for mt=649 e= 1.221E+02
139. An angular distribution is negative
acer...monte carlo neutron and photon data (138): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
65 for mt=649 e= 1.231E+02
140. An angular distribution is negative
acer...monte carlo neutron and photon data (139): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
35 for mt=649 e= 1.241E+02
141. An angular distribution is negative
acer...monte carlo neutron and photon data (140): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
42 for mt=649 e= 1.251E+02
142. An angular distribution is negative
acer...monte carlo neutron and photon data (141): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
49 for mt=649 e= 1.261E+02
143. An angular distribution is negative
acer...monte carlo neutron and photon data (142): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
36 for mt=649 e= 1.271E+02
144. An angular distribution is negative
acer...monte carlo neutron and photon data (143): Neg. $P(Ej\mu)$ (b)

- message from ptleg2---negative probs found
32 for mt=649 e= 1.281E+02
145. An angular distribution is negative
acer...monte carlo neutron and photon data (144): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
53 for mt=649 e= 1.291E+02
146. An angular distribution is negative
acer...monte carlo neutron and photon data (145): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
26 for mt=649 e= 1.302E+02
147. An angular distribution is negative
acer...monte carlo neutron and photon data (146): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
31 for mt=649 e= 1.312E+02
148. An angular distribution is negative
acer...monte carlo neutron and photon data (147): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
21 for mt=649 e= 1.322E+02
149. An angular distribution is negative
acer...monte carlo neutron and photon data (148): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
23 for mt=649 e= 1.332E+02
150. An angular distribution is negative
acer...monte carlo neutron and photon data (149): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
47 for mt=649 e= 1.342E+02
151. An angular distribution is negative
acer...monte carlo neutron and photon data (150): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
32 for mt=649 e= 1.352E+02
152. An angular distribution is negative
acer...monte carlo neutron and photon data (151): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
37 for mt=649 e= 1.362E+02
153. An angular distribution is negative
acer...monte carlo neutron and photon data (152): Neg. $P(Ej\mu)$ (b)
- message from ptleg2---negative probs found
41 for mt=649 e= 1.372E+02

154. An angular distribution is negative
acer...monte carlo neutron and photon data (153): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
12 for mt=649 e= 1.382E+02
```

155. An angular distribution is negative
acer...monte carlo neutron and photon data (154): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
63 for mt=649 e= 1.392E+02
```

156. An angular distribution is negative
acer...monte carlo neutron and photon data (155): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
46 for mt=649 e= 1.402E+02
```

157. An angular distribution is negative
acer...monte carlo neutron and photon data (156): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
53 for mt=649 e= 1.412E+02
```

158. An angular distribution is negative
acer...monte carlo neutron and photon data (157): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
103 for mt=649 e= 1.423E+02
```

159. An angular distribution is negative
acer...monte carlo neutron and photon data (158): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
3 for mt= 5 e= 7.472E+01
```

160. An angular distribution is negative
acer...monte carlo neutron and photon data (159): Neg. P(Ej μ) (b)

```
---message from ptleg2---negative probs found
1 for mt= 5 e= 1.034E+02
```

- **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```
ACELST WARNING - Processing Ang.Dist.MT          2
E-grid non-monotonic  4.500000000E+01 4.500000000E+01
```

- **xsectplotter** Errors:

1. Level energy in gamma data doesn't match level energy in cross section data
(Error # 2): Level mismatch (d)

- WARNING: MT606 MF12 level energy 1009620.0 differs from MF3 value 1009619.8. Setting to MF3 value.
2. Level energy in gamma data doesn't match level energy in cross section data
(Error # 3): *Level mismatch (d)*
- WARNING: MT801 MF12 level energy 749099.9 differs from MF3 value 749099.89. Setting to MF3 value.
3. Level energy in gamma data doesn't match level energy in cross section data
(Error # 4): *Level mismatch (d)*
- WARNING: MT803 MF12 level energy 1164590.0 differs from MF3 value 1164589.9. Setting to MF3 value.
4. Level energy in gamma data doesn't match level energy in cross section data
(Error # 5): *Level mismatch (d)*
- WARNING: MT804 MF12 level energy 1352650.0 differs from MF3 value 1352649.9. Setting to MF3 value.
5. Level energy in gamma data doesn't match level energy in cross section data
(Error # 6): *Level mismatch (d)*
- WARNING: MT805 MF12 level energy 1480070.0 differs from MF3 value 1480069.9. Setting to MF3 value.
6. Level energy in gamma data doesn't match level energy in cross section data
(Error # 7): *Level mismatch (d)*
- WARNING: MT806 MF12 level energy 1557260.0 differs from MF3 value 1557259.9. Setting to MF3 value.
7. Level energy in gamma data doesn't match level energy in cross section data
(Error # 8): *Level mismatch (d)*
- WARNING: MT807 MF12 level energy 1899200.0 differs from MF3 value 1899199.9. Setting to MF3 value.
8. Level energy in gamma data doesn't match level energy in cross section data
(Error # 9): *Level mismatch (d)*
- WARNING: MT808 MF12 level energy 2001910.0 differs from MF3 value 2001909.9. Setting to MF3 value.
9. Level energy in gamma data doesn't match level energy in cross section data
(Error # 10): *Level mismatch (d)*
- WARNING: MT809 MF12 level energy 2255500.0 differs from MF3 value 2255499.9. Setting to MF3 value.
10. Level energy in gamma data doesn't match level energy in cross section data
(Error # 11): *Level mismatch (d)*
- WARNING: MT810 MF12 level energy 2312580.0 differs from MF3 value 2312579.9. Setting to MF3 value.
11. Level energy in gamma data doesn't match level energy in cross section data
(Error # 12): *Level mismatch (d)*
- WARNING: MT811 MF12 level energy 2379460.0 differs from MF3 value 2379459.9. Setting to MF3 value.
12. Level energy in gamma data doesn't match level energy in cross section data
(Error # 13): *Level mismatch (d)*
- WARNING: MT812 MF12 level energy 2385400.0 differs from MF3 value 2385399.9. Setting to MF3 value.

13. Level energy in gamma data doesn't match level energy in cross section data
(Error # 14): *Level mismatch (d)*

WARNING: MT813 MF12 level energy 2500000.0 differs from MF3 value 2499999.9. Setting to MF3 value.

14. Level energy in gamma data doesn't match level energy in cross section data
(Error # 15): *Level mismatch (d)*

WARNING: MT814 MF12 level energy 2699000.0 differs from MF3 value 2698999.9. Setting to MF3 value.

15. Level energy in gamma data doesn't match level energy in cross section data
(Error # 16): *Level mismatch (d)*

WARNING: MT815 MF12 level energy 2704390.0 differs from MF3 value 2704389.9. Setting to MF3 value.

16. Level energy in gamma data doesn't match level energy in cross section data
(Error # 17): *Level mismatch (d)*

WARNING: MT816 MF12 level energy 2762600.0 differs from MF3 value 2762599.9. Setting to MF3 value.

17. Level energy in gamma data doesn't match level energy in cross section data
(Error # 18): *Level mismatch (d)*

WARNING: MT817 MF12 level energy 2767300.0 differs from MF3 value 2767299.9. Setting to MF3 value.

18. Level energy in gamma data doesn't match level energy in cross section data
(Error # 19): *Level mismatch (d)*

WARNING: MT818 MF12 level energy 2828500.0 differs from MF3 value 2828499.9. Setting to MF3 value.

19. Level energy in gamma data doesn't match level energy in cross section data
(Error # 20): *Level mismatch (d)*

WARNING: MT819 MF12 level energy 2890200.0 differs from MF3 value 2890199.9. Setting to MF3 value.

20. Level energy in gamma data doesn't match level energy in cross section data
(Error # 21): *Level mismatch (d)*

WARNING: MT820 MF12 level energy 2908100.0 differs from MF3 value 2908099.9. Setting to MF3 value.

21. Level energy in gamma data doesn't match level energy in cross section data
(Error # 22): *Level mismatch (d)*

WARNING: MT821 MF12 level energy 2911000.0 differs from MF3 value 2910999.9. Setting to MF3 value.

22. Level energy in gamma data doesn't match level energy in cross section data
(Error # 23): *Level mismatch (d)*

WARNING: MT822 MF12 level energy 2948200.0 differs from MF3 value 2948199.9. Setting to MF3 value.

23. Level energy in gamma data doesn't match level energy in cross section data
(Error # 24): *Level mismatch (d)*

WARNING: MT823 MF12 level energy 2970000.0 differs from MF3 value 2969999.9. Setting to MF3 value.